Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. - 33. (canceled)

34. (Currently Amended) A method of producing a semiconductor device comprising the steps of:

forming a plurality of <u>pyramid-shaped</u> pyramidal bump electrodes of the semiconductor device; and

connecting the <u>pyramid-shaped</u> pyramidal bump electrodes to pad electrodes of the semiconductor device;

wherein said step of forming the plurality of <u>pyramid-shaped</u> pyramidal bump electrodes <u>includes</u> including:

a step of forming <u>pyramid-shaped</u> pyramidal etched holes by anisotropically etching a base material having a crystal orientation, and

a step of filling up the etched <u>pyramid-shaped</u> pyramidal holes by plating a metal to form the <u>pyramid-shaped</u> pyramidal bump electrodes, wherein the shape of the <u>pyramid-shaped</u> pyramidal bump electrodes is identical to a shape of the etched <u>pyramid-shaped</u> pyramidal holes; <u>and</u>

wherein the step of connecting the pyramid-shaped bump electrodes to the pad electrodes includes:

a step of attaching the base of the pyramid-shaped bump electrodes to the pad electrodes, and

transferring the pyramid-shaped bump electrodes to the pad electrodes.

35. (Previously Presented) A method of producing a semiconductor device according to claim 34,

wherein between said step of forming etched holes and said step of filling up the etched holes, further includes

a step of forming a primary film of the same material as the metal for said plating of the metal on said base material having a crystal orientation and on a side surface of each of said etched holes, thereby filling up the etched holes by plating the metal by using said primary film.

36. (Previously Presented) A method of producing a semiconductor device according to claim 34,

wherein before said step of forming said etched holes, further includes a step of forming a first pattern having opening portions at positions corresponding to the etched holes by etching a first oxidized film formed on said base material having the crystal orientation, and

a step of forming said etched holes by using the first pattern as a mask.

37. (Currently Amended) A method of producing a semiconductor device according to claim 34,

wherein said step of forming the plurality of <u>pyramid-shaped</u> pyramidal bump electrodes includes;

a step of forming a first pattern having opening portions at positions corresponding to the etched holes by etching a first oxidized film formed on said base material having the crystal orientation, and

a step of forming said etched holes by using the first pattern as a mask, a step of removing the first oxidized film,

a step of forming a second oxidized film anew on the etched holes, and a step of filling up the etched holes by plating a metal.

38. (Previously Presented) A method of producing a semiconductor device according to claim 34,

wherein after said step of filling up the etched holes by plating a metal, further includes a step of forming a gold plated film on the metal plated film.

39. (Previously Presented) A method of producing a semiconductor device according to claim 37,

wherein after said step of filling up the etched holes by plating a metal, further includes a step of forming a gold plated film on the metal plated film.

40. (Previously Presented) A method of producing a semiconductor device according to claim 34,

wherein in said step of filling up the etched holes by plating a metal, Ni is plated as said metal to fill up the etched holes.

41. (Previously Presented) A method of producing a semiconductor device according to claim 37,

wherein in said step of filling up the etched holes by plating a metal, Ni is plated as said metal to fill up the etched holes.

42. (Previously Presented) A method of producing a semiconductor device according to claim 34,

wherein in said step of filling up the etched holes by plating a metal, Cu is plated as said metal to fill up the etched holes.

43. (Previously Presented) A method of producing a semiconductor device according to claim 37,

wherein in said step of filling up the etched holes by plating a metal, Cu is plated as said metal to fill up the etched holes.

44. (Currently Amended) A method of producing a semiconductor device according to claim 34,

wherein after said step of connecting the <u>pyramid-shaped pyramidal</u> bump electrodes to pad electrodes of the semiconductor device, further includes a step of forming a gold film on a surface of the <u>pyramid-shaped pyramidal</u> bump electrodes.

45. (Currently Amended) A method of producing a semiconductor device according to claim 37,

wherein after said step of connecting the <u>pyramid-shaped</u> pyramidal bump electrodes to pad electrodes of the semiconductor device, further includes a step of forming a gold film on a surface of the <u>pyramid-shaped</u> pyramidal bump electrodes.

46. (Previously Presented) A method of producing a semiconductor device according to claim 35,

wherein in said step of forming a primary film, a Cr film is formed as said primary film for metal plating, and then a Ni film is formed on the Cr film.

47. (Currently Amended) A method of producing a semiconductor device according to claim 46,

wherein in said step of connecting said <u>pyramid-shaped</u> pyramidal bump electrodes to pad electrodes of the semiconductor device, said <u>pyramid-shaped</u> pyramidal bump electrodes are transferred from the base material having the crystal orientation to the pad electrodes by removing said Cr film.

48. (Currently Amended) A method of producing a semiconductor device according to claim 34,

wherein in said step of connecting said <u>pyramid-shaped</u> pyramidal bump electrodes to pad electrodes of the semiconductor device, after transferring the <u>pyramid-shaped</u> pyramidal bump electrodes from the base material having the crystal orientation to the pad electrodes, a step is further included to form a gold film on the surface of the <u>pyramid-shaped</u> pyramidal bump electrodes.

49. (Currently Amended) A method of producing a semiconductor device according to claim 37,

wherein in said step of connecting said <u>pyramid-shaped</u> <u>pyramidal</u> bump electrodes to pad electrodes of the semiconductor device, after transferring the <u>pyramid-shaped</u> <u>pyramidal</u> bump electrodes from the base material having the crystal orientation to the pad electrodes, a step is further included to form a gold film on the surface of the <u>pyramid-shaped</u> <u>pyramidal</u> bump electrodes.

50. (Currently Amended) A method of producing a semiconductor device according to claim 34,

wherein in said step of connecting said <u>pyramid-shaped</u> pyramidal bump electrodes to pad electrodes of the semiconductor device, said <u>pyramid-shaped</u> pyramidal bump electrodes and the pad electrodes of the semiconductor device are thermally compressed at 200°C to 300°C, and the <u>pyramid-shaped</u> pyramidal bump

electrodes and the pad electrodes of the semiconductor device are electrically connected through conductive particles connected to an anisotropic conduction sheet.

51. (Currently Amended) A method of producing a semiconductor device according to claim 34,

wherein in said step of connecting the <u>pyramid-shaped</u> pyramidal bump electrodes to pad electrodes of the semiconductor device, gold stud bumps formed on the pad electrodes of said semiconductor device and the <u>pyramid-shaped</u> pyramidal bump electrodes are thermally compressed thereby connecting by forming an alloy.

52. (Currently Amended) A method of producing a semiconductor device according to claim 34,

wherein in said step of connecting the <u>pyramid-shaped pyramidal</u> bump electrodes to pad electrodes of the semiconductor device, a Ni film and a gold film formed on the pad electrodes of the semiconductor device, and the <u>pyramid-shaped pyramidal</u> bump electrodes are thermally compressed thereby connecting by forming an alloy.

53. (Currently Amended) A method of producing a semiconductor device comprising the steps of:

forming a plurality of <u>pyramid-shaped</u> pyramidal bump electrodes of the semiconductor device; and

connecting the <u>pyramid-shaped</u> pyramidal bump electrodes to pad electrodes of the semiconductor device;

wherein said step of forming the plurality of <u>pyramid-shaped</u> pyramidal bump electrodes <u>includes</u> including:

a step of forming a first pattern having openings at positions corresponding to etched holes by etching a first oxidized film formed on a surface of a base material having a crystal orientation,

a step of forming said etched holes by using the first pattern as a mask,

a step of removing the first oxidized film,

a step of forming a second oxidized film anew on the etched holes,

a step of forming a plated feeding film on the base material having the crystal orientation and on a side surface of each of the etched holes,

a step of forming a second pattern of an organic material on the base material having the crystal orientation so that the etched holes are not covered,

a step of filling up the etched holes by plating a metal film on the plated film on the plated feeding film,

a step of forming a gold plated film on the metal film, and

a step of removing the second pattern of the organic material; and

wherein the step of connecting the pyramid-shaped bump electrodes to the pad electrodes includes:

a step of attaching the base of the pyramid-shaped bump electrodes to the pad electrodes, and

transferring the pyramid-shaped bump electrodes to the pad electrodes.

54. (Currently Amended) A method of producing a semiconductor device according to claim 34,

wherein the plurality of <u>pyramid-shaped</u> pyramidal bump electrodes is separated from one another at least after the step of connecting the <u>pyramid-shaped</u> pyramidal bump electrodes to pad electrodes of the semiconductor device.

- 55. (Currently Amended) A method of producing a semiconductor device according to claim 34, further including a step of removing the base material from the pyramid-shaped pyramid-shaped pyramidal bump electrodes after the step of connecting the pyramidal bump electrodes to pad electrodes of the semiconductor device.
- 56. (Currently Amended) A method of producing a semiconductor device according to claim 34,

wherein each of the <u>pyramid-shaped</u> pyramidal bump electrodes keeps its <u>pyramid</u> pyramidal shape after the step of connecting pad electrodes of the semiconductor device. 57. (Currently Amended)) A method of producing a semiconductor device according to claim 34,

wherein each tip of the <u>pyramid-shaped</u> pyramidal bump electrodes is bonded to a terminal formed on a substrate after the step of connecting the <u>pyramid-shaped</u> pyramidal bump electrodes to pad electrodes of the semiconductor device.

58. (Currently Amended)) A method of producing a semiconductor device according to claim 57,

wherein said each tip of the <u>pyramid-shaped</u> pyramidal bump electrodes is thermally compressed to the terminal formed on the substrate.

59. (Currently Amended)) A method of producing a semiconductor device according to claim 57,

wherein said each tip of the <u>pyramid-shaped</u> pyramidal bump electrodes is soldered to the terminal formed on the substrate.

60. (Previously Presented) A method of producing a semiconductor device according to claim 57, wherein the terminal is provided on a wiring conductor formed on a substrate.